

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GT-81087-20VV-x.x-W2A

May 3, 2024

GT-81087-20VV-x.x-W2A

Information

Model Number	GT-81087-20VV-x.x-W2A
Description	GT-81087-20VV-x.x-W2A, ICT/ITE Power Supply, Wall Plug-in, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, Australian AS 3112 configuration: SAA 2 pins Class II, Output Rating: 20 Watts, Power rating with convection cooling (W) , 5-18V in 0.1V increments, Approvals: China RoHS; Double Insulation; Level V; LPS 60950; NEMKO; RoHS; WEEE;
Model Picture	
Agency Documents	http://www.globtek.info/certs/GT-81087/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0Oa000000Mh2tjEAB
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0Oa000000Mh2tjEAB
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf

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MODEL PARAMETERS

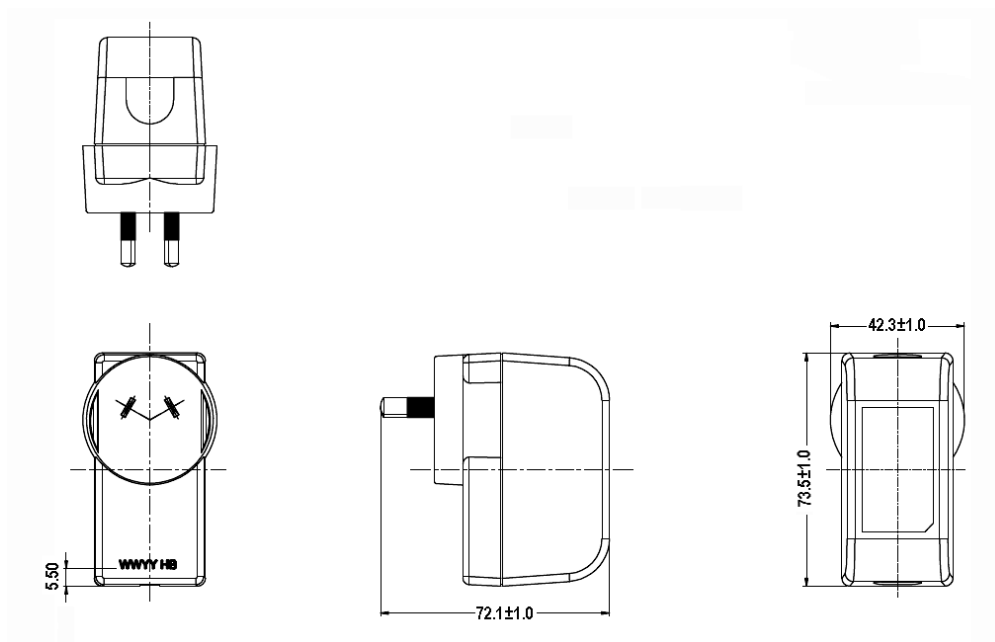
Type	Wall Plug-in
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	ICT/ITE Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	0.7A
Wattage (W)	20.0
Vout Range (V)	5-18
Efficiency Level	V
Ingress Protection	
Size (mm)	

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GT-81087-157.5-2.5-W2A	5 V	3	15.00	RFQ

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SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:

01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60Hz
03. Output Regulation: +/- 5% measured at the output connector
04. Line Voltage Regulation: +/- 2% typical measured at full load
05. Output Ripple (Vp-p): 200mV p-p measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with 10 uf electrolytic capacitor connected at the end of the output connector at nominal line
06. Turn-ON/OFF Overshoot: $\pm 10\%$ maximum, 500 uS typical recovery time for 25% to 50% step load
07. Turn-ON Delay: 4 sec, maximum @ full load, nominal line
08. Hold-Up Time: 100 mS typical @ nominal input voltage and full load
09. Inrush Current: 150A maximum cold start @ 115/230Vac input
10. Switching Frequency: 65 KHz typical

B) PROTECTION

01. Over-Voltage: Electronically Protected unit will auto recover upon removal of fault
02. Short Circuit: Electronically Protected unit will auto recover upon removal of fault
03. Input Protection: Input line fusing

C) SAFETY

01. Dielectric Withstand Voltage: 4242Vdc from primary to secondary
02. Touch Current: <0.25mA @ 240Vac input voltage

D) OTHER:

01. MTBF: 200,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 40°C ambient temperature
03. Humidity: 5% to 90% relative humidity
04. Storage Temperature: -20°C to 60°C
05. Cooling: Convection
06. ROHS 2: Complies with EU 2011/65/EU and China SJ/T 11363-2006

E) ENCLOSURE

01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Markings: Label and/or Pad Printed and/or Molded in the case

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DERATING CURVE

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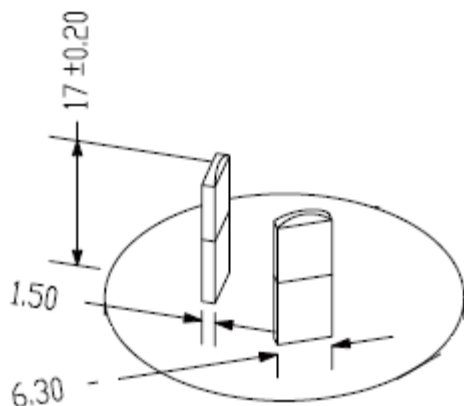
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INPUT CONFIGURATION

Description

Australian AS 3112 configuration: SAA 2 pins Class II

Used in [Australia](#), [New Zealand](#), [Fiji](#), [Papua New Guinea](#) and [Tokelau](#), has two flat pins forming an inverted V-shape. These flat blades measure 6.3 by 1.5 mm with the Active and Neutral pins of 17 mm in length set 30° to the vertical on a nominal pitch of 13.7 mm. A standard power outlet in Australia provides a nominal voltage of 230 volts at a maximum of 10 amps and always includes an earth connection. As in the UK, its outlets are individually switched for extra safety. [Argentina](#) uses a similar plug, with pins 1 mm longer.



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OUTPUT CONFIGURATION

Common output connector options:



L Type (Coaxial
5.5x2.5mm plug)



C Type (Coaxial
5.5x2.1mm plug)



K Type (Coaxial
3.5x1.3mm plug)



LL Type (5.5x2.5mm
Locking 760k type)



CL Type (5.5x2.1mm
Locking S761k type)



ML2 Type (Molex
housing 43025-0200)



YL3 Type
(KPPX-3P)



YL4 Type (KPPX-4P)



EJ1/2/3/4/5 (EIAJ
RC-5320A type
connectors)



MSB Type (Micro
USB)



USBC Type (USB
Type C)



Inquire for custom
design

For a comprehensive list of options, [click here](#)

Contact GlobTek for your specific requirements or custom solutions.

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Approvals

Logo	Description
	Attention Mark / Refer to operating manual for operating and service instructions
	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf
	
	Indoor Use Only - Mark is on the label or Molded in the case
EFFICIENCY LEVEL 	Efficiency: complies to section 301 of Energy Independence and Security Act (EISA) complies with Energy Star tier 2 (North America), ECP tier 2 (China), MEPS tier 2 (Australia), Code of Conduct (Europe)
LPS	Limited Power Source 60950
	NEMKO
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) http://www.ce-mark.com/Rohs%20final.pdf
	WEEE: Complies with EU 2012/19/EU (http://ec.europa.eu/environment/waste/weee/index_en.htm) Mark is on the label or Molded in the case